

## **APPENDIX B**

### Canadian Climate Normals - Sandspit

Environment  
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Canada

## Canadian Climate Normals 1971-2000

The minimum number of years used to calculate these Normals is indicated by a code for each element. A "+" beside an extreme date indicates that this date is the first occurrence of the extreme value. Values and dates in bold indicate all-time extremes for the location.

**NOTE!!** Data used in the calculation of these Normals may be subject to further quality assurance checks. This may result in minor changes to some values presented here.

SANDSPIT A \*  
BRITISH COLUMBIA

Latitude: 53°15'14.000" N Longitude: 131°48'47.000" W Elevation: 6.40 m

Climate ID: 1057050

WMO ID:

IC ID: YZP

\* This station meets WMO standards for temperature and precipitation.

Temperature:	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	Code
Daily Average (°C)	3.2	3.7	4.7	6.4	9	11.8	14.3	15	13.1	9.3	5.6	3.8	8.3	A
Standard Deviation	1.9	1.8	1.1	0.9	1	1.1	0.9	0.9	0.9	0.9	1.7	1.5	0.8	A
Daily Maximum (°C)	5.6	6.3	7.6	9.4	12	14.6	17	17.9	16	12.1	8.3	6.3	11.1	A
Daily Minimum (°C)	0.7	1.1	1.8	3.3	6	8.9	11.5	12.1	10.2	6.4	2.9	1.3	5.5	A
Extreme Maximum (°C)	12.4	13.4	13.9	18.9	21.7	25.9	<b>27.8</b>	26.7	24.1	20.6	16.3	13.4		
Date (yyyy/dd)	1981/18	1977/19	1965/12	1958/29	1958/25	1987/29	<b>1971/28</b>	1952/05	1980/15	1986/04	1985/02	1980/15		
Extreme Minimum (°C)	-13.9	-12.3	-12.2	-5.1	-1.1	2.2	5	1.9	-0.6	-3.1	<b>-15.5</b>	-12.8		
Date (yyyy/dd)	1954/26	1989/01	1951/05	1996/02	1965/04	1950/04	1971/01	1992/11	1948/22	1984/30	<b>1985/26</b>	1970/04		
Precipitation:														
Rainfall (mm)	148.8	123.1	107.2	99.9	63.2	56.2	46.7	57.5	83.7	185.5	195.6	174	1341.2	A
Snowfall (cm)	22.3	16	6.5	2	0	0	0	0	0	0	3.6	11.3	61.7	A
Precipitation (mm)	168.7	139	113.3	102	63.2	56.2	46.6	57.5	83.7	185.5	198.2	184.5	1398.2	A
Average Snow Depth (cm)	2	1	0	0	0	0	0	0	0	0	0	1	0	A
Median Snow Depth (cm)	1	0	0	0	0	0	0	0	0	0	0	0	0	A
Snow Depth at Month-end (cm)	2	2	0	0	0	0	0	0	0	0	0	1	0	A
Extreme Daily Rainfall (mm)	66.4	45.8	41.5	<b>79.5</b>	48.3	39.1	22.1	46.5	48.5	58.6	66.2	66.8		
Date (yyyy/dd)	2001/09	1983/09	1983/08	<b>1952/15</b>	1950/16	1973/11	1957/30	1991/29	1961/04	1978/31	1984/01	1991/20		
Extreme Daily Snowfall (cm)	<b>38</b>	27.4	19.6	8.6	1.5	0	0	0	0	2	22.9	23.4		
Date (yyyy/dd)	<b>1996/27</b>	1972/25	1951/05	1971/19	1962/01	1949/01	1949/01	1948/01	1945/01	1984/30	1964/27	1955/19		
Extreme Daily Precipitation (mm)	71.4	45.8	47.5	<b>79.5</b>	48.3	39.1	22.1	46.5	48.5	58.6	67	66.8		
Date (yyyy/dd)	2001/09	1983/09	1946/27	<b>1952/15</b>	1950/16	1973/11	1957/30	1991/29	1961/04	1978/31	1984/01	1991/20		
Extreme Snow Depth (cm)	<b>81</b>	66	30	3	0	0	0	0	0	1	28	43		
Date (yyyy/dd)	<b>1969/13</b>	1969/06	1972/01	1968/11	1955/01	1955/01	1955/01	1955/01	1955/01	1984/29	1964/28	1971/23		
Days with Maximum Temperature:														
<= 0 °C	1.9	0.97	0.10	0	0	0	0	0	0	0	0.44	1.3	4.7	A
> 0 °C	29.1	27.3	30.9	30	31	30	31	31	30	31	29.6	29.7	360.6	A

Temperature:	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	Code
> 10 °C	1.6	1.5	3	9.7	25.6	29.8	31	31	30	26	7	2.5	198.6	A
> 20 °C	0	0	0	0	0.14	0.67	2.9	4.4	0.93	0.07	0	0	9.1	A
> 30 °C	0	0	0	0	0	0	0	0	0	0	0	0	0	A
> 35 °C	0	0	0	0	0	0	0	0	0	0	0	0	0	A
<b>Days with Minimum Temperature:</b>														
> 0 °C	18.4	18	23.4	27.3	30.9	30	31	31	30	30.8	25.2	21.5	317.4	A
<= 2 °C	19.9	16.7	16.8	9.6	1.2	0	0	0.03	0	1.5	11	18.8	95.5	A
<= 0 °C	12.6	10.3	7.6	2.7	0.07	0	0	0	0	0.21	4.8	9.6	47.9	A
< -2 °C	5.9	4.1	1.8	0.28	0	0	0	0	0	0	1.6	3.8	17.4	A
< -10 °C	0.10	0.14	0	0	0	0	0	0	0	0	0.07	0.10	0.41	A
< -20 °C	0	0	0	0	0	0	0	0	0	0	0	0	0	A
< -30 °C	0	0	0	0	0	0	0	0	0	0	0	0	0	A
<b>Days with Rainfall:</b>														
>= 0.2 mm	19.6	17.6	20.1	19.6	17.7	16	14.1	13.9	16.9	22.6	23	21.3	222.3	A
>= 5 mm	9.3	7.8	7.5	6.6	4.2	3.6	3.2	4	5.7	11.8	11.9	11.3	86.7	A
>= 10 mm	4.9	4.5	3.6	3.1	1.3	1.2	0.90	1.4	2.3	6.3	7	6.4	42.7	A
>= 25 mm	1.1	0.93	0.21	0.41	0.14	0.03	0	0.10	0.34	1.4	1.4	1.3	7.4	A
<b>Days With Snowfall:</b>														
>= 0.2 cm	5.5	4.4	2.9	1.3	0.07	0	0	0	0	0.07	1.7	2.9	18.8	A
>= 5 cm	1.5	1	0.28	0.10	0	0	0	0	0	0	0.22	0.75	3.9	A
>= 10 cm	0.55	0.31	0.07	0	0	0	0	0	0	0	0.04	0.21	1.2	A
>= 25 cm	0.03	0.03	0	0	0	0	0	0	0	0	0	0	0.06	A
<b>Days with Precipitation:</b>														
>= 0.2 mm	22.3	19.7	20.7	19.8	17.8	16	14.1	13.8	16.9	22.6	23.7	22.8	230.2	A
>= 5 mm	10.8	8.8	8	6.7	4.2	3.6	3.2	4	5.7	11.8	12.2	12.2	91.2	A
>= 10 mm	5.6	4.9	3.7	3.1	1.3	1.2	0.90	1.4	2.3	6.3	7	6.8	44.5	A
>= 25 mm	1.2	1	0.28	0.41	0.14	0.03	0	0.10	0.34	1.4	1.4	1.3	7.6	A
<b>Days with Snow Depth:</b>														
>= 1 cm	5.5	4.7	1.3	0.03	0	0	0	0	0	0	0.48	2.8	14.8	A
>= 5 cm	4	2.9	0.82	0	0	0	0	0	0	0	0.11	1.7	9.5	A
>= 10 cm	2.2	1.4	0.43	0	0	0	0	0	0	0	0	0.92	5	A
>= 20 cm	0.48	0.25	0.14	0	0	0	0	0	0	0	0	0.50	1.4	A
<b>Wind:</b>														
Speed (km/h)	21.6	21.1	20	20.5	19.3	17.7	16.4	16	17.2	19.9	21.4	21.4	19.4	A
Most Frequent Direction	SE	SE	SE	SE	SE	SE	W	W	SE	SE	SE	SE	SE	A
Maximum Hourly Speed (km/h)	129	105	100	113	97	77	74	74	93	137	121	121		
Date (yyyy/dd)	1955/03	1974/20	1981/24	1954/08	1954/30	1965/10	1993/21	1991/29	1962/27	1954/20	1954/12	1954/08		
Maximum Gust Speed (km/h)	161	164	121	140	122	97	93	100	113	148	161	152		
Date (yyyy/dd)	1955/03	1974/20	1970/12	1960/16	1987/29	1956/21	1982/05	1991/29	1958/24	1977/24	1959/01	1981/04		
Direction of Maximum Gust	SE	SE	SE	SE	E	SE	SE	E	SE	E	SW	SE	SE	
Days with Winds >= 52 km/h	7.3	5.9	5.1	4.4	2.8	1.4	0.8	0.9	2.1	5.2	7.4	7.1	50.5	C
Days with Winds >= 63 km/h	3.4	3	2.7	2	0.9	0.3	0.2	0.3	1	2.4	3.8	3.6	23.4	C
<b>Degree Days:</b>														
Above 24 °C	0	0	0	0	0	0	0	0	0	0	0	0	0	A
Above 18 °C	0	0	0	0	0	0.2	1.3	1.9	0.2	0	0	0	3.6	A
Above 15 °C	0	0	0	0	0.1	1.7	11.8	21.2	5.2	0.2	0	0	40.2	A
Above 10 °C	0	0	0	0.7	11.9	56.3	131.9	154.2	94.8	18.8	1.2	0	469.8	A
Above 5 °C	16.1	15.6	20.9	48.3	125.1	202.9	286.8	309.2	243	134.2	42.3	17.6	1462	A
Above 0 °C	110.3	111.7	146.8	190.7	280	352.9	441.8	464.2	393	288.5	171.2	125.3	3076.4	A
Below 0 °C	11.9	6	1	0	0	0	0	0	0	0	3	6.9	28.8	A
Below 5 °C	72.7	51.3	30	7.5	0.2	0	0	0	0	0.7	24.1	54.2	240.7	A
Below 10 °C	211.6	177.1	164.1	110	41.9	3.4	0.1	0	1.7	40.2	133	191.7	1074.9	A
Below 15 °C	366.6	318.5	319.1	259.3	185.2	98.9	35	22	62.1	176.6	281.8	346.7	2471.7	A
Below 18 °C	459.6	403.3	412.1	349.3	278	187.4	117.5	95.7	147.1	269.5	371.8	439.7	3530.9	A
<b>Bright Sunshing:</b>														
Total Hours	48.6	78.1	118.1	154.6	199.1	176.8	186.6	186.8	141.8	97.9	63	47	1498.1	C
Days with measureable	18.9	20.8	25.7	26.6	28.7	27.2	28	28.3	25.8	24.2	20.2	18.9	293.2	C

<u>Temperature:</u>	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	Code
% of possible daylight hours	19.3	28.2	32.2	36.9	40.5	34.9	36.7	40.8	37.1	29.7	24.1	19.9	31.7	C
Extreme Daily Date (yyyy/dd)	1972/26	1991/28	1994/28	1979/27	1982/28	<b>1976/06</b>	1994/04	1977/03	1993/02	1994/14	1994/01	1972/05		C
<u>Humidex:</u>														
Extreme Humidex Date (yyyy/dd)	1963/06	1977/19	1965/10	1958/29	1998/27	1987/29	<b>1971/28</b>	1997/13	1980/15	1986/04	1986/02	1980/14		
Days with Humidex >= 30	0	0	0	0	0	0	0	0	0	0	0	0	0.1	A
Days with Humidex >= 35	0	0	0	0	0	0	0	0	0	0	0	0	0	A
Days with Humidex >= 40	0	0	0	0	0	0	0	0	0	0	0	0	0	A
<u>Wind Chill:</u>														
Extreme Wind Chill Date (yyyy/dd)	1971/10	1989/01	1955/02	1954/03	1964/12	1973/01	1971/01	1969/19	1958/21	1984/30	<b>1985/26</b>	1964/15		
Days with Wind Chill < -20	0.2	0.1	0	0	0	0	0	0	0	0	0.1	0	0.4	A
Days with Wind Chill < -30	0	0	0	0	0	0	0	0	0	0	0	0	0	A
Days with Wind Chill < -40	0	0	0	0	0	0	0	0	0	0	0	0	0	A
<u>Humidity:</u>														
Average Vapour Pressure (kPa)	0.7	0.7	0.7	0.8	0.9	1.1	1.3	1.4	1.2	1	0.8	0.7	1	A
Average Relative Humidity - 0600LST (%)	87.5	87	86.7	86.6	84.6	84.5	84.9	85.3	86.2	87.2	86.8	86.9	86.2	A
Average Relative Humidity - 1500LST (%)	83.4	80	77.1	76.7	75.3	76.7	76.3	76.2	76.3	78.5	80.9	83.7	78.4	A
<u>Pressure:</u>														
Average Station Pressure (kPa)	101	100.9	101	101.3	101.5	101.6	101.8	101.6	101.5	101.2	100.8	101	101.2	A
Average Sea Level Pressure (kPa)	101	100.9	101.1	101.3	101.5	101.6	101.8	101.7	101.6	101.2	100.9	101	101.3	A
<u>Radiation:</u>														
Extreme Global - RF1 (MJ/m2) Date (yyyy/dd)	1974/29	1978/27	1987/30	1988/30	1986/31	<b>1976/12</b>	1972/01	1977/03	1985/01	1985/06	1967/03	1985/01		
<u>Visibility (hours with):</u>														
< 1 km	10.8	9.5	3.8	4.6	2.2	2.7	2.5	3.7	6.2	4.7	2.7	5.5	58.9	C
1 to 9 km	81.7	74	57.5	46.1	32.8	30.2	29.2	28	33.5	65.4	65.9	77.6	621.9	C
> 9 km	651.4	595.6	682.7	669.4	709	687	712.4	712.3	680.3	673.9	651.4	660.9	8086.3	C
<u>Cloud Amount (hours with):</u>														
0 to 2 tenths	95.5	101.3	116.8	115.7	114.9	86.2	110.7	145	151.3	109.2	98.6	96.3	1341.5	D
3 to 7 tenths	137.1	133.3	169.8	165	172.1	150.9	150.4	154.6	167	172.2	166.6	154.6	1893.5	D
8 to 10 tenths	511.5	443.4	457.4	439.3	457	482.9	483	444.4	401.7	462.6	454.8	493.1	5531	D

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